



Launch Mission Execution Forecast



Mission: Falcon 9 Starlink-L28

Issued: 25 May 2021 / 0700L (1100Z)

Valid: 26 May 2021 / 1359 – 1600L (1759 – 2000Z)

Forecast Discussion: Another great weather day expected across Central Florida as high pressure remains in control. Warm afternoons with partly cloudy skies will continue through the week with only very isolated showers. High temperatures will be in the mid to upper 80s along the Space Coast and over 90F inland. A slight chance for a brief rain shower is possible over the Spaceport as the sea breeze pushes inland each day. For launch Wednesday, favorable conditions are expected with only a very slight chance of a cumulus cloud moving into the flight path at launch time.

On Thursday, the high pressure ridge will begin to weaken, but remain strong enough to suppress convection though the launch window. The primary launch weather concern remains a low chance of a Cumulus Cloud Rule violation.

		Probability of Violating Weather Constraints																				
Launch Day	10%	Primary Concerns: Cumulus Cloud Rule																				
	Weather Conditions				Additional Risk Criteria																	
	Weather/Visibility: None / 7 mi.	<table border="1"> <thead> <tr> <th colspan="4">Clouds</th> </tr> <tr> <th>Type</th> <th>Coverage</th> <th>Base (ft)</th> <th>Tops (ft)</th> </tr> </thead> <tbody> <tr> <td>Cumulus</td> <td>Few</td> <td>3,000</td> <td>8,000</td> </tr> </tbody> </table>			Clouds				Type	Coverage	Base (ft)	Tops (ft)	Cumulus	Few	3,000	8,000	Upper-Level Wind Shear:	Low				
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Cumulus	Few	3,000	8,000																			
Temp/Humidity: 85°F / 50%				Booster Recovery Weather:	Low																	
Liftoff Winds (200'): 120° 10 - 15 mph				Solar Activity:	Low																	
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24-Hour Delay	20%	Primary Concerns: Cumulus Cloud Rule																				
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Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.																						
Next Forecast Will Be Issued		As Required																				